Draft Agenda
(Last updated 2/9/2018)
Western Numeric Nutrient Criteria Workshop
U.S. EPA Regional Office, 75 Hawthorne St. San Francisco, CA

Tuesday May 1, 2018

Day 1 (Afternoon)- 12:00PM-5:00PM

12:00--12:20 Welcome and Introductory Remarks- Dana Thomas, Chief of the Ecological Health Processes Branch EPA-HQ and Tomás Torres, EPA-Region 9 Water Division Director

12:20-12:25 Agenda Overview and Logistics- Stephen Maurano, Water Quality Standards Nutrients Coordinator, Office of Water and Watersheds, Region 9

12:25-12:45 Ice Breaker-TBD

Freshwater: Lakes and Reservoirs

12:45-2:15 Deriving Nutrient Criteria for Lakes/Reservoirs: Endpoint Selection and Reducing Variability of Stressor-Response Analyses- Lester Yuan, EPA Office of Water

2:15-4:30 Deriving Numeric Nutrient Criteria for Lakes/Reservoirs

- Shifts in Phytoplankton Community Structure and Function as Indication of Nutrient Pollution for Lakes and Reservoirs- Eric Hargett, Wyoming Department of Environmental Quality
- Washington's Reference Guidance Criteria- Chad Brown, Washington State Department of Ecology

3:15-3:30 Break

- Placeholder for Status Summary on Work and Data for Lakes on Coeur D'Alene Tribal Land- Ben Scofield, Coeur D'Alene Tribe (via webinar)
- Lessons Learned in Establishing Numeric Nutrient Criteria on the Pyramid Lake Reservation- Kameron Morgan, Pyramid Lake Paiute

4:30-5:00 Group Discussion: Next Steps to Advance Nutrient Criteria Development for Lakes - TBD

5:30 Social Outing

Wednesday May 2, 2018

Day 2 (Morning)- 8:00AM-12:00PM

Freshwater: Rivers and Streams

8:00-11:10 Deriving Numeric Nutrient Criteria or Nutrient Thresholds for Rivers and Streams

- Using Algal Indicators and Other Tools-Panel Discussion on the Use of Diatoms to Derive Nutrient Criteria Thresholds- Jason Pappani, Idaho Department of Environmental Quality; Aron Borok or Shannon Hubler (via webinar), Oregon Department of Environmental Quality and Chad Brown, Washington State Department of Ecology

- N-STEPS Support: How to Control for Variability and Confounding Factors in Stressor Response Analysis of Nutrient and Diatom Data- Michael Paul, Tetra Tech
- Algal and Macroinvertebrate Indicators of Nutrient Pollution- Jessle Maxfield, California State Board
- Exploring Ecological Indicators of Nutrient Pollution in Utah's Headwaters- Jeff Ostermiller, Utah Department of Environmental Quality
- Development of Nutrient Thresholds Derived Using Visual Surveys for Wadeable Streams- Randy Pahl, NV DEP

9:55-10:10 Break

- Placeholder for Stream and Algal Indicators Presentation- Patti Spindler, Arizona Department of Environmental Quality
- Placeholder for Development of Criteria Protective of Rivers, Streams and Downstream- Hanna Winter, Lummi Natural Resources
- Placeholder for a translation of the narrative -Todd Thorn, Confederated Tribes of the Colville Reservation (add time for this as soon as it is confirmed)

11:10-11:50 Lessons Learned in Establishing Numeric Nutrient Criteria or Nutrient Thresholds for Large Rivers and Inter-jurisdictional Issues

- Modelling Approaches and Challenges in Setting up Nutrient Criteria for Large Rivers - Mike Suplee, Montana Department of Environmental Quality
- Phosphorus Control in the Oligotrophic Pend Oreille Basin- Ken Merrill, Kalispel Tribe of Indians

11:50-2:30 Lunch, Poster Presentations & Hands-on Interactive Displays

Day 2 (Afternoon)- 2:30PM-5:30PM

2:30-3:00 Group Discussion: Challenges and Potential Solutions to the Development and Adoption of Nutrient Criteria in Rivers and Streams

3:00-3:15 Break

Putting Numeric Nutrient Criteria and Nutrient Thresholds into Action

3:15-5:15 Group Exercise: Use of Multiple Lines of Evidence to Support Numeric Nutrient Criteria -Lead by Mike Paul, Tetra Tech

5:15-5:30 Wrap up and Action Items-Mike Paul, Tetra Tech

Thursday May 3, 2018

Day 3 (Morning)-8:30AM-11:00AM

Putting Numeric Nutrient Criteria and Nutrient Thresholds into Action (continuation)

8:30- 9:30 Moving from Criteria Adoption to Implementation: Lessons Learned to Overcome Challenges and Misperceptions- State presentations followed by a panel discussion

How the TMDLs for the Lower Boise River Have Been Used to Translate the Existing Narrative Criteria? TBD-Idaho *(tentative)*; Montana Department of Environmental Quality (tentative); Myron Honda, Hawaii State Department of Health and Gary Colegrove, Hoopa Valley Tribe

9:30-10:30 Making Progress in Nutrient Reduction While Working on Criteria- Group Discussion

10:30-10:35 Ice Breaker-TBD

10:35-11:00 Feedback and Next Steps- EPA (TBD) and volunteer state and tribal representatives

Day 3 (Mid-morning to Afternoon)- 11:15AM-2:15PM

Special session

Marine: Estuaries and Coastal Waters

11:15-12:00 - Estuarine Protection and Downstream Protection

- Emerging HABs, HABs Toxicity and HABs Fluxes Linked to Anthropogenic Sources - Raphael M. Kudela, University of California Santa Cruz
- Role of Local Nutrients in Coastal Acidification - Cheryl Brown, Office of Research and Development (EPA's National Health and Environmental Effects Research Lab) and Megan Young, United States Geological Survey

12:00-12:45 Working Lunch

Novel Strategies to Ensure Downstream Protection

- San Francisco Estuary Efforts to Reduce Nutrient Pollution- David Senn, San Francisco Estuary Institute
- Puget Sound Nutrient Dynamics and Source Reduction Project- Dustin Bilhimer or Christopher Krembs, Washington State Department of Ecology

12:45-12:55 Break

12:55-1:45 Panel and Interactive Discussion

- Use and Applicability of Nutrient Models and Other Tools to Address Nutrient Pollution- Martha Sutula, Southern California Coastal Water Research Project; Dustin Bilhimer or Christopher Krembs, Washington State Department of Ecology and Cheryl Brown, Office of Research and Development (EPA's National Health and Environmental Effects Research Lab)
    - Open Discussion on Technological Needs
- **1:45-2:15** Group Discussion: Current and Future Approaches to the Reduction of Nutrient Pollution in Estuarine and Coastal Waters- Rochelle Labiosa, Water Quality Standards Nutrients Coordinator, Region 10